

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 September 2005 (15.09.2005)

PCT

(10) International Publication Number
WO 2005/085936 A1

(51) International Patent Classification⁷: **G02B 27/10**,
H01J 37/22

(21) International Application Number:
PCT/AU2005/000204

(22) International Filing Date: 17 February 2005 (17.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2004901223 9 March 2004 (09.03.2004) AU

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

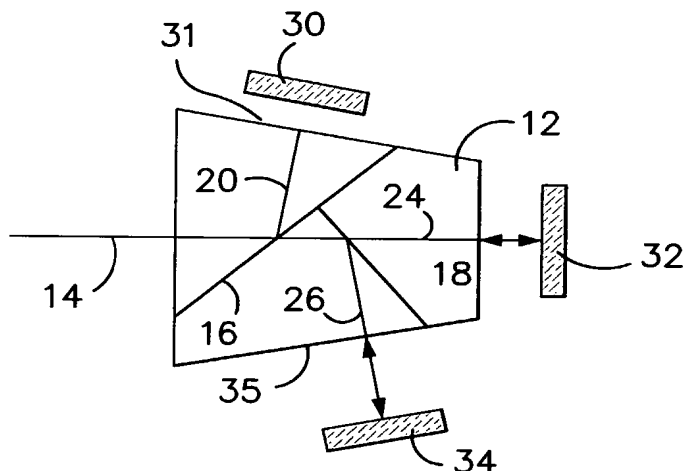
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: AN OPTICAL SYSTEM FOR PRODUCING DIFFERENTLY FOCUSED IMAGES



(57) Abstract: A method and system for producing two differently focused /defocused images is disclosed in which one or more beam splitting means (16, 18) are used to split a beam (14) into a plurality of resultant beams (20, 26, 24) and a plurality of separate sensors (30, 34, 32) are used to detect the beams (20, 26, 24). The path length of the resultant beams (20, 26, 24) to the respective sensors (30, 34, 32) are different for each resultant beam, which can be achieved by placing the sensors (30, 34, 32) at different distances from the respective exit points of the resultant beams (20, 26, 24) from the beam splitting means (16, 18) or by providing optical elements (such as, for instance, movable transparent wedge-shaped members) between the beam splitting means (16, 18) and the sensors 830, 34, 329. A method and system for determining movement of an object by capturing sequential images of the object are also disclosed.

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